

HFFW.. High-Frequency Tubular Fluorescent Lighting



Sealed fluorescent lights, 8" to 48" tube lengths, ac and dc powered

For the latest technical information about this product, including specifications, dimensions, and wiring, see www.BannerEngineering.com



- Electronic ballast increases lamp frequency and eliminates strobe effect
- Models available with built-in or external ballast. External ballast models provide shorter, more compact light housing.
- Ideal for illuminating hard-to-reach areas
- Parabolic louver extends the full length of the light opening; reduces glare.
- All models include built-in mounting brackets and a 2.5 m (8') integral cable
- Acrylic tube and strain-relief cable gland for use in wet environments
- IEC IP67 enclosure rating, exceeds NEMA 4X

Built-in ballast models shown



WARNING: Not To Be Used for Personnel Protection

Never use this product as a sensing device for personnel protection. Doing so could lead to serious injury or death. This product does NOT include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition.

Models

Model	Bulb Length	Ballast Type	Connection	Supply Voltage	Bulb Wattage	
HFFW8DC	8"	Built-In Electronic Ballast	3-conductor, 2.5 m (8') integral cable, unterminated	24V dc	18 W	
HFFW12DC	12"				24 W	
HFFW14DC	14"				36 W	
HFFW8AC110	8"		Built-In Electronic Ballast	3-conductor, 2.5 m (8') integral cable with male plug	100–120V ac	18 W
HFFW15AC110	15"				120V ac	36 W
HFFW12AC	12"			120–277V ac	24 W	
HFFW24AC	24"				17 W	
HFFW36AC	36"				25 W	
HFFW48AC	48"				32 W	
HFFW8AC230	8"			100–230V ac	18 W	
HFFW15AC230	15"			230V ac	36 W	
HFFW8ACR	8"			External Ballast	3-conductor, 2.5 m (8') integral cable, unterminated (light to ballast) plus 3-conductor, 2.5 m (8') cable with male 3-prong plug (ballast to power source) See wiring.	120–277V ac
HFFW12ACR	12"	24 W				
HFFW15ACR	15"	36 W				
HFFW24ACR	24"	17 W				



Model	Bulb Length	Ballast Type	Connection	Supply Voltage	Bulb Wattage
HFFW36ACR	36"				25 W
HFFW48ACR	48"				32 W

Dimensions

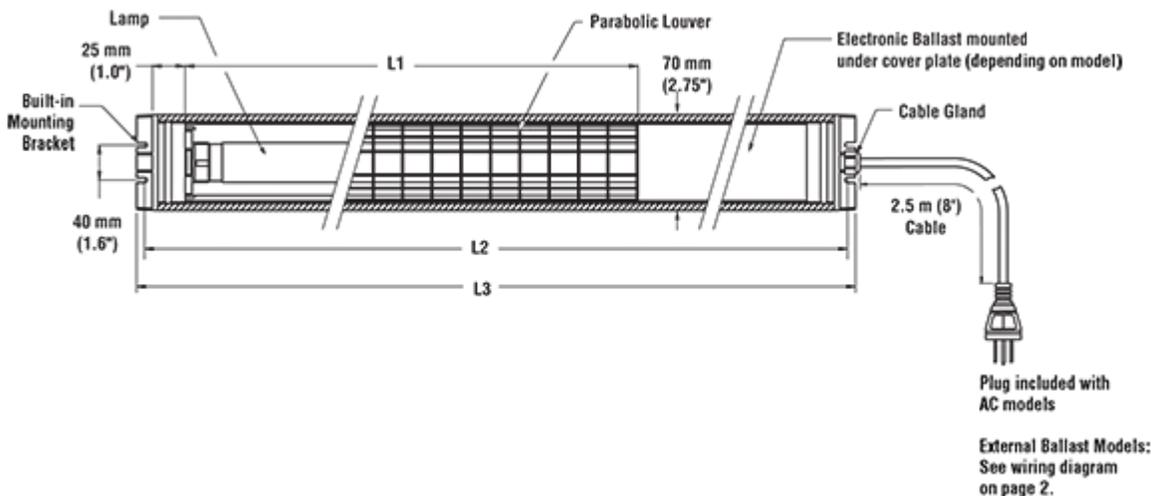


Figure 1. Dimensions for Models with Lamps 24 inches and Longer

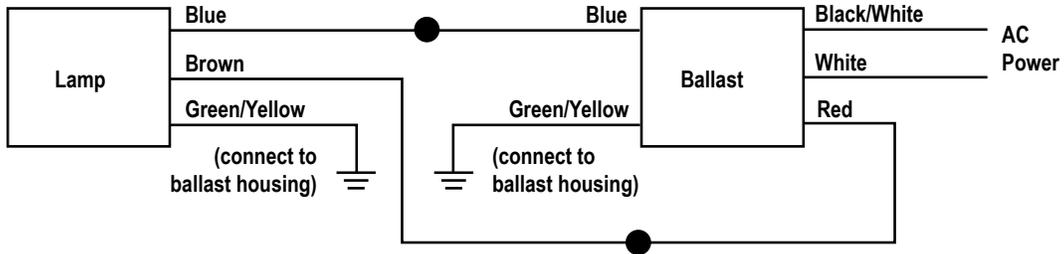
Models with Lamps Up to 15 Inches Long			
Light Model	Light Opening L1	Distance Between Mounting Holes L2	Overall Length L3
HFFW8DC	198 mm (7.8")	501 mm (19.7")	513 mm (20.2")
HFFW8AC110			
HFFW8AC230		468 mm (18.4")	480 mm (18.9")
HFFW12DC	318 mm (12.5")	620 mm (24.4")	632 mm (24.9")
HFFW12AC	315 mm (12.4")	700 mm (27.6")	712 mm (28.0")
HFFW14DC	363 mm (14.3")	727 mm (28.6")	739 mm (29.1")
HFFW15AC110	363 mm (14.3")	808 mm (31.8")	820 mm (32.3")
HFFW15AC230	363 mm (14.3")	854 mm (33.6")	866 mm (34.1")
HFFW8ACR	198 mm (7.8")	388 mm (15.3")	400 mm (15.8")
HFFW12ACR	293 mm (11.5")	467 mm (18.4")	479 mm (18.9")
HFFW15ACR	393 mm (15.5")	546 mm (21.5")	558 mm (22.0")

Models with Lamps 24 Inches and Longer			
Light Model	Light Opening L1	Distance Between Mounting Holes L2	Overall Length L3
HFFW24AC	604 mm (23.8")	1019 mm (40.1")	1031 mm (40.6")
HFFW36AC	909 mm (35.8")	1324 mm (52.1")	1336 mm (52.6")
HFFW48AC	1214 mm (47.8")	1644 mm (64.7")	1656 mm (65.2")

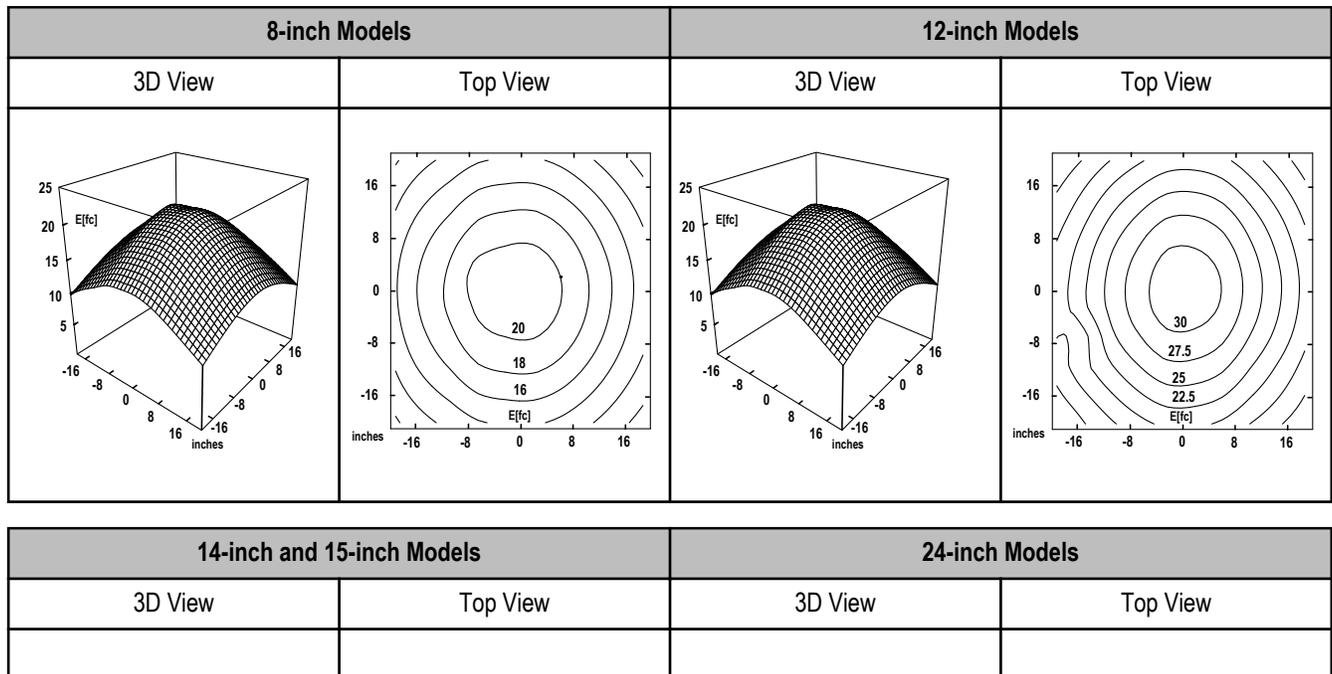
Models with Lamps 24 Inches and Longer			
Light Model	Light Opening L1	Distance Between Mounting Holes L2	Overall Length L3
HFFW24ACR	605 mm (23.8")	773 mm (30.5")	785 mm (30.9")
HFFW36ACR	909 mm (35.8")	1080 mm (42.5")	1092 mm (43.0")
HFFW48ACR	1214 mm (47.8")	1384 mm (54.5")	1396 mm (55.0")

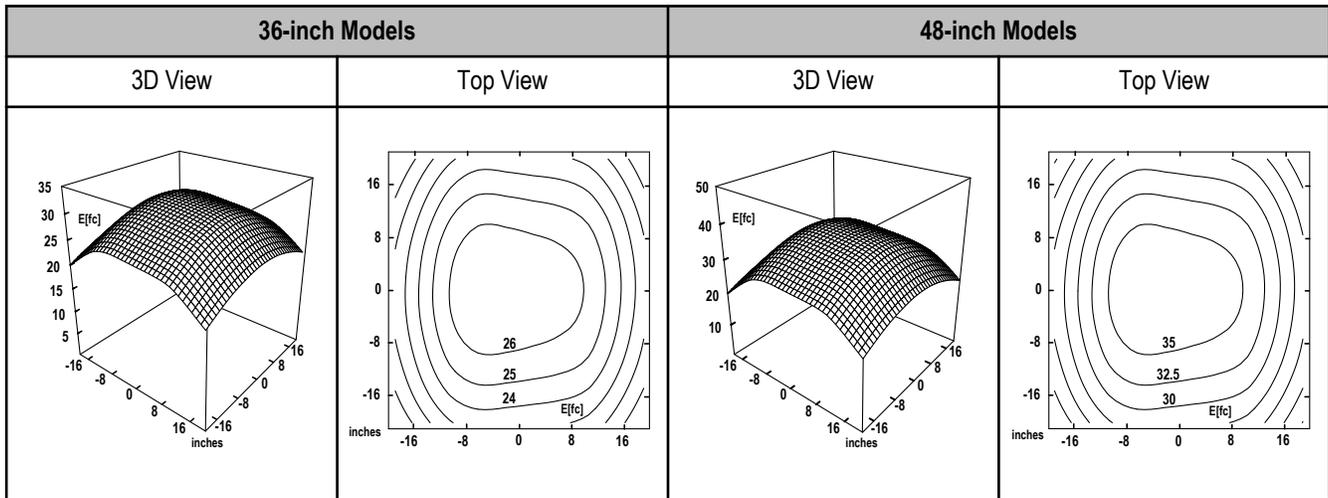
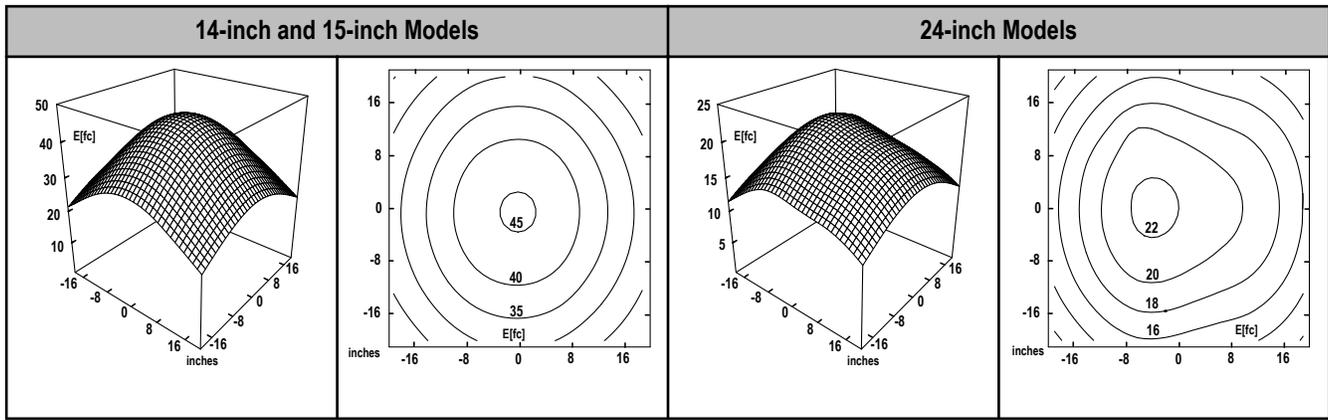
Wiring

External Ballast Models Only — See dimension drawings for wiring of built-in ballast models.



Beam Patterns





Mounting height for all views: 20 inches.

Replacement Parts

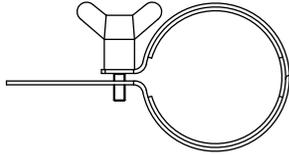
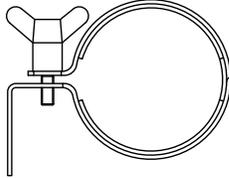
Light Model	Replacement Bulb		Replacement Housing	
	Model	Length	Model	Length
HFFW8DC	HFFLW8	8"	HFFTA18.5	18.5"
HFFW8AC110			HFFTA17.2	17.2"
HFFW8AC230			HFFTA14.2	14.2"
HFFW8ACR				
HFFW12DC	HFFLW12	12"	HFFTA23.3	23.3"
HFFW12AC			HFFTA26.4	26.4"
HFFW12ACR			HFFTA17.3	17.3"
HFFW14DC	HFFLW15	15"	HFFTA27.5	27.5"
HFFW15AC110			HFFTA30.7	30.7"
HFFW15AC230			HFFTA32.5	32.5"
HFFW15ACR			HFFTA20.4	20.4"
HFFW24AC	HFFLW24	24"	HFFTA38.9	38.9"

Light Model	Replacement Bulb		Replacement Housing	
	Model	Length	Model	Length
HFFW24ACR			HFFTA29.3	29.3"
HFFW36AC	HFFLW36	36"	HFFTA50.9	50.9"
HFFW36ACR			HFFTA41.4	41.4"
HFFW48AC	HFFLW48	48"	HFFTA63	63.0"
HFFW48ACR			HFFTA53.4	53.4"

Accessory Mounting Brackets

All HFFW... Series Lights have built-in end-cap mounting brackets. If they are not used, these accessory mounting brackets are required for mounting the lights.

- Heavy-duty, bright zinc-coated steel construction
- Two brackets required per light

Model	Description	Product
SMBWFTLS	Straight	
SMBWFTLR	Right-angle	

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